

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF SEVEN EXISTING TRAFFIC CONTROL SIGNALS AT THE INTERSECTIONS OF U.S. 40 AND BAUGHMAN'S LANE/LINDEN AVENUE, U.S. 40 AND HOKE PLACE, U.S. 40 AND HILLCREST DRIVE, U.S. 40 AND WILLOWDALE DRIVE, U.S. 40 AND MCCAIN DRIVE, U.S. 40 AND GROVE HILL ROAD AND U.S. 40 AND WAVERLY DRIVE IN FREDERICK COUNTY. U.S. 40 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

1. U.S. 40 AND BAUGHMANS LANE/LINDEN AVENUE

WORK INVOLVES THE INSTALLATION OF PEDESTRIAN SIGNAL HEADS, PUSHBUTTONS AND R10-4(1) SIGNS, SIDEWALK RAMPS, PAVEMENT MARKINGS, LOOP DETECTORS AND MICROLOOP PROBE SETS.

2. U.S. 40 AND HOKE PLACE

WORK INVOLVES THE INSTALLATION OF PEDESTRIAN SIGNAL HEADS, PUSHBUTTONS AND R10-4(1) SIGNS, SIDEWALK RAMPS, PAVEMENT MARKINGS, LOOP DETECTORS AND STREET LIGHTING.

3. U.S. 40 AND HILLCREST DRIVE

WORK INVOLVES THE INSTALLATION OF PEDESTRIAN SIGNAL HEADS, PAVEMENT MARKINGS AND LOOP DETECTORS.

4. U.S. 40 AND WILLOWDALE DRIVE

WORK INVOLVES THE INSTALLATION OF PEDESTRIAN SIGNAL HEADS, PUSHBUTTONS AND R10-4(1) SIGNS, PAVEMENT MARKINGS, LOOP DETECTORS AND STREET LIGHTING.

5. U.S. 40 AND MCCAIN DRIVE

WORK INVOLVES THE RELOCATION OF PEDESTRIAN SIGNAL HEADS, THE REMOVAL OF A PEDESTAL POLE AND PEDESTRIAN SIGNAL HEADS AND THE INSTALLATION OF PAVEMENT MARKINGS, LOOP DETECTORS AND STREET LIGHTING.

6. U.S. 40 AND GROVE HILL ROAD

WORK INVOLVES THE INSTALLATION OF PEDESTRIAN SIGNAL HEADS, PUSHBUTTONS AND R10-4(1) SIGNS, A MEDIAN OPENING, PAVEMENT MARKINGS, LOOP DETECTORS AND STREET LIGHTING.

7. U.S. 40 AND WAVERLY DRIVE

WORK INVOLVES THE INSTALLATION OF PAVEMENT MARKINGS, LOOP DETECTORS AND STREET LIGHTING.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED AT EACH INTERSECTION.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.00 - 104.00-30	STANDARD NO. MD-104.45-01 (RIGHT-LANE CLOSURE)
STANDARD NO. MD-104.31-01 (FLAGGING OPERATION)	STANDARD NO. MD-104.35-01 (LANE SHIFT)
STANDARD NO. MD-104.44-01 (LEFT-LANE CLOSURE)	STANDARD NO. MD-104.33-02 (SHOULDER WORK)
STANDARD NO. MD-104.49-01 (SHOULDER WORK)	STANDARD NO. MD-104.32-02 (INTERSECTION FLAGGING OPERATION)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. ROBERT FISHER
DISTRICT ENGINEER
PHONE: (301) 624-8140

MR. JIM BUCKALOO
DISTRICT UTILITIES ENGINEER
PHONE: (301) 624-8140

MR. JOHN CONCANNON
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 624-8141

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

MR. LEON KERNS
ACTING ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 624-8140

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA


<u>CATEGORY CODE NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
965001	8 EACH	PEDESTRIAN PUSHBUTTON AND R10-4(1) SIGN (NOTE: SIGN TO READ "PUSHBUTTON TO CROSS WEST PATRICK STREET").
973023	9 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 1 EACH R4-7 SIGN (24 IN. X 30 IN.) - GROUND MOUNT.

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

<u>CATEGORY CODE NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
120500	LUMP SUM	MAINTENANCE OF TRAFFIC
120610	15 U.D.	ARROW PANEL
120620	300 S.F.	TEMPORARY TRAFFIC SIGNS
130850	LUMP SUM	MOBILIZATION
201032	15 C.Y.	CLASS 2 EXCAVATION
203030	8 C.Y.	TEST PIT EXCAVATION
500000	4 EACH	REMOVE EXISTING PAVEMENT MARKING -- ARROW
500000	16 EACH	REMOVE EXISTING PAVEMENT MARKING -- LETTER
585414	3700 L.F.	12 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS
585416	1300 L.F.	24 IN. WHITE THERMOPLASTIC PAVEMENT MARKINGS
585448	2 EACH	PERMANENT PREFORMED PAVEMENT MARKING ARROW
585450	175 L.F.	REMOVE EXISTING PAVEMENT MARKINGS -- ANY WIDTH
600000	80 L.F.	FURNISH AND INSTALL DEPRESSED CURB AND GUTTER
655104	400 S.F.	FURNISH AND INSTALL 4 IN. CONCRETE SIDEWALK
801004	8 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
801104	20 L.F.	FURNISH AND INSTALL 4 IN. X 4 IN. WOOD SIGN SUPPORT
802501	500 L.F.	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
805011	290 L.F.	FURNISH AND INSTALL 1 IN. GALVANIZED ELECTRICAL CONDUIT FOR DETECTOR SLEEVE
805155	500 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT -- SLOTTED
805160	450 L.F.	FURNISH AND INSTALL 1 IN. LIQUID-TIGHT NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
811011	6 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813005	1 EACH	RELOCATE EXISTING GROUND MOUNTED SIGN AND SUPPORT
813014	5 S.F.	INSTALL GROUND MOUNTED SIGN
831010	9 EACH	FURNISH AND INSTALL 250 WATT HPS LUMINAIRE WITH PHOTOCELL
837001	8 EACH	FURNISH AND INSTALL GROUND ROD-- 3/4 IN. DIAMETER X 10 FT. LENGTH
860265	2 EACH	RELOCATE EXISTING SIGNAL HEAD
861104	2400 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE -- 2 CONDUCTOR (ALUMINUM SHIELDED)
861105	1800 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE-- 2 CONDUCTOR (NO. 14 A.W.G.)
861106	2860 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE -- 3 CONDUCTOR (NO. 14 A.W.G.)
861116	1800 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE-- 2 CONDUCTOR (NO. 12 A.W.G.)
862101	21300 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
862102	6300 L.F.	FURNISH AND INSTALL SAWCUT FOR SIGNAL (LOOP DETECTOR)
865201	8 EACH	INSTALL PUSHBUTTON AND SIGN
866103	9 EACH	FURNISH AND INSTALL 15 FT. STREET LIGHTING ARM
800000	440 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT -- TRENCHED
800000	20 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT --TRENCHED
800000	40 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT -- TRENCHED
800000	2 EACH	INSTALL CONDUIT BEND INTO EXISTING CABINET
800000	8 EACH	FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE (ANY SIZE)
800000	34 EACH	FURNISH AND INSTALL 12 IN. PEDESTRIAN SIGNAL HEAD SECTION
800000	3 EACH	FURNISH AND INSTALL MICROLOOP PROBE SET WITH 500 FT. LEAD-IN
800000	LUMP SUM	REMOVAL AND DISPOSAL OF EXISTING MATERIAL AND EQUIPMENT
800000	500 L.F.	PULL BACK AND RE-FEED INTERCONNECT CABLE
800000	2 EACH	ADJUST EXISTING SPAN WIRE



REVISIONS		APPROVALS		 <div>MARYLAND DOT - STATE HIGHWAY ADMINISTRATION <i>Office of Traffic & Safety</i> TRAFFIC ENGINEERING DESIGN DIVISION GENERAL INFORMATION U.S. 40 FROM WAVERLY DRIVE TO THE EAST OF U.S. 15</div>		
		ASST. TRAFFIC ENGINEERING DESIGN DIVISION				
		ASST. DISTRICT ENGINEER, TRAFFIC				
		CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION				
		DIRECTOR, TRAFFIC & SAFETY				
		DRAWN BY: S.BLOSS		F.A.P. NO.	TS NO.	SHEET NO.
		CHECKED BY: N.LEARY		S.H.A. NO. FR3315171	TS-3937G12	
		SCALE: NONE		COUNTY: FREDERICK	T.I.M.S. NO.	
		DATE: 9-10-99		LDG MILE:		7 OF 7